

○ Results (water)

Locations			2018 May - June Survey												
		Latitude	Longitude	pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
Abukuma River System	A-1(Surface layer)	37.6210°	140.5218°	7.3	1.6	4.5	8.0	19.9	0.11	2.3	5	3.1	0.0017	0.015	0.0013
	A-1(Bottom layer)	37.6210°	140.5218°	7.3	1.7	4.7	8.3	19.9	0.11	2.4	8	3.6	N.D.(0.0016)	0.020	-
	A-2	37.5673°	140.3946°	7.3	0.8	3.6	9.8	13.1	0.07	1.5	4	2.5	0.0032	0.026	-
	B-2	37.8121°	140.5058°	7.4	1.0	3.4	9.5	9.9	0.06	1.3	8	3.3	0.0027	0.021	-
	B-3	37.8182°	140.4679°	7.4	0.9	3.0	10.2	5.6	0.03	1.1	8	2.9	N.D.(0.0015)	0.0096	-
Uda River	C-6	37.7764°	140.8877°	7.4	<0.5	2.9	9.2	11.0	0.06	1.3	3	2.8	0.0016	0.014	0.00061
Mano River	D-4 a	37.7308°	140.9081°	7.1	<0.5	2.6	9.5	10.8	0.06	1.1	2	1.8	0.0016	0.013	0.00075
Niida River	E-2 a	37.6640°	140.9447°	7.0	<0.5	2.4	9.7	8.1	0.05	1.0	3	2.4	0.0037	0.031	0.0015
Ota River	F-1	37.5975°	140.9252°	7.2	<0.5	2.7	9.7	5.2	0.03	1.1	1	0.8	0.015	0.14	0.0035
Lake Hayama (Mano Dam)	G-1(Surface layer)	37.7321°	140.8127°	7.2	0.5	3.6	9.0	7.0	0.04	1.6	5	4.1	0.0046	0.038	-
	G-1(Bottom layer)	37.7321°	140.8127°	6.9	<0.5	3.8	7.9	7.1	0.04	1.6	6	4.7	0.0042	0.039	0.0012
	G-4	37.7382°	140.8035°	7.5	<0.5	2.4	9.4	7.6	0.04	1.0	2	1.2	N.D.(0.0014)	0.013	-
Lake Akimoto	H-1(Surface layer)	37.6575°	140.1264°	7.3	0.7	2.4	9.7	3.8	0.03	1.2	<1	0.7	N.D.(0.0016)	0.0071	-
	H-1(Bottom layer)	37.6575°	140.1264°	7.1	0.8	3.1	9.9	3.6	0.03	1.5	1	1.1	N.D.(0.0014)	0.0043	0.0011
Lake Inawashiro	J-1(Surface layer)	37.4203°	140.1008°	6.5	<0.5	1.4	11.0	10.7	0.06	0.6	<1	0.7	N.D.(0.0013)	0.0066	-
	J-1(Bottom layer)	37.4203°	140.1008°	6.6	1.1	1.8	10.7	10.8	0.06	0.9	1	0.8	N.D.(0.0016)	0.0062	0.00086
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3(Surface layer)	38.0458°	140.9518°	8.2	2.2	4.5	9.8	4650	30.84	2.2	3	1.9	N.D.(0.0017)	0.0056	-
	K-3(Bottom layer)	38.0458°	140.9518°	7.9	0.7	1.8	3.3	5050	34.12	1.3	4	1.9	0.0014	0.014	0.00081
Off Soma City (Matsukawaura)	L-2	37.8155°	140.9763°	8.1	0.9	3.2	8.5	4640	31.69	1.9	6	3.5	0.0025	0.031	0.00081
Off Iwaki City (Hisanohama)	M-2(Surface layer)	37.1996°	141.0853°	8.1	<0.5	1.6	8.7	5070	34.12	1.0	1	0.6	N.D.(0.0014)	0.0038	-
	M-2(Bottom layer)	37.1996°	141.0853°	8.1	<0.5	1.2	6.0	5090	34.08	0.9	2	0.5	N.D.(0.0015)	0.0038	0.00098

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

O Results (sediments)

	Locations		2018 May - June Survey																	
	Latitude	Longitude	pH	Redox potential E _{NHE} (mV)	Water content (%)	IL (%)	TOC (mg-g-dry)	Soil particle density (g/cm ³)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Se-90 (Bq/kg-dry)	
									Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.0075mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)				
Abukuma River System	A-1	37.6210°	140.5218°	7.0	43	30.8	3.9	5.5	2.673	0.0	1.6	62.6	12.8	10.4	2.7	0.35	4.8	30	290	0.17
	A-2	37.5673°	140.3946°	6.9	317	18.8	2.2	2.1	2.715	25.8	46.4	19.6	5.5	2.7	1.3	9.5	15	140	-	
	B-2	37.8121°	140.5058°	7.1	332	24.4	2.0	1.6	2.772	0.1	0.8	62.3	34.3	2.5	0.29	4.8	12	130	-	
	B-3	37.8182°	140.4679°	7.3	312	18.2	1.9	2.2	2.673	18.7	28.7	34.8	15.7	1.4	2.7	0.73	4.8	9.0	91	-
Uda River	C-6	37.7764°	140.8877°	7.2	283	17.0	1.8	1.5	2.728	27.6	40.6	28.8	2.3	0.7	1.2	4.8	13	130	0.39	
Mano River	D-4 a	37.7308°	140.9081°	7.2	263	17.3	2.4	1.4	2.714	31.3	43.9	20.9	2.7	1.2	1.4	19	30	310	0.82	
Niida River	E-2 a	37.6640°	140.9447°	7.0	122	21.9	3.0	4.5	2.693	15.2	15.0	36.1	19.0	6.6	8.1	0.38	19	150	1500	0.36
Ota River	F-1	37.5975°	140.9252°	7.1	331	19.9	1.6	1.6	2.655	9.7	33.9	45.5	8.4	2.5	0.75	4.8	170	1600	0.69	
Lake Hayama (Mano Dam)	G-1	37.7321°	140.8127°	6.9	91	60.8	11.7	43.8	2.552	0.0	0.1	1.7	24.5	40.0	33.7	0.020	2.0	320	3000	3.4
	G-4	37.7382°	140.8055°	7.2	210	25.7	3.2	3.6	2.692	9.9	24.1	43.7	12.6	3.8	5.9	0.59	19	62	630	-
Lake Akimoto	H-1	37.6575°	140.1264°	6.8	75	61.0	9.2	17.9	2.581	0.0	0.1	0.2	0.7	52.4	46.6	0.0058	2.0	29	250	1.5
Lake Inawashiro	J-1	37.4203°	140.1008°	7.2	314	24.0	1.9	2.5	2.719	0.3	1.7	56.9	33.9	2.6	4.6	0.28	4.8	7.0	80	N.D.(0.13)
Off the mouth of the Abukuma River (Sea Area in front of the mouth of the Abukuma River)	K-3	38.0458°	140.9518°	7.7	12	34.2	5.4	5.1	2.698	0.0	0.1	0.1	29.6	56.0	14.2	0.053	2.0	19	190	N.D.(0.13)
Off Soma City (Masukawara)	L-2	37.8155°	140.9763°	7.7	204	19.8	1.7	0.9	2.724	1.6	6.8	81.2	8.6	1.8	0.43	9.5	0.50	5.0	N.D.(0.14)	
Off Iwaki City (Hisaojima)	M-2	37.1996°	141.0853°	7.6	188	21.7	2.9	1.4	2.789	0.0	0.6	2.4	91.1	2.6	3.3	0.16	2.0	4.3	50	N.D.(0.12)

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

○ Results (aquatic organisms)

Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Abukuma River System	A-2	Harase River	2018/5/30	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0072	-	-	-	79.5	5.5	74	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	60	0.021	Larva	-	-	-	33.2	3.2	30	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	94	0.11	Larva(Dragonfly larva)	-	-	-	18.1	2.1	16	-
				Arthropoda	Insecta	Odonata	Cordulegasteridae	<i>Anotogaster sieboldii</i>	<u>Anotogaster sieboldii</u>										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops										
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	6	0.029	Juvenile,Imago	-	-	-	14.8	1.8	13	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Neocaridina sp.</i>	Neocaridina	357	0.11	Juvenile,Imago	-	-	-	14.4	1.4	13	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.031	Imago	-	Molluscous part	-	154	14	140	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	226	1.1	Immature fish,Mature fish	-	-	-	7.45	0.95	6.5	0.23
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	14	0.16	Immature fish	-	-	-	9.64	0.94	8.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	6	0.058	Immature fish	-	-	-	7.2	N.D.(0.85)	7.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	4	0.054	Immature fish,Mature fish	-	-	-	6.2	N.D.(1.1)	6.2	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	18	0.067	Immature fish	-	-	-	7.3	1.2	6.1	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	99	0.38	Immature fish,Mature fish	-	-	-	9.8	1.1	8.7	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	71	0.91	Immature fish	-	-	-	6.96	0.76	6.2	0.16
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.092	Mature fish	Diptera,Ant,Aquatic insect	Viscera removed	-	10	N.D.(0.83)	10	-
				Vertebrata	Amphibia	Anura	-	-	-	28	0.014	Larva(Tadpole)	-	-	-	134	14	120	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana japonica</i>	Japanese Brown Frog	7	0.040	Imago	-	-	-	19.7	1.7	18	-
				Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled Frog										
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	11	0.068	Imago	-	-	-	6.78	0.68	6.1	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.18	-	-	-	32.3	3.3	29	-		

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*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*6: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*8: Activity concentrations include counting errors, but the details are omitted here.

Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)			
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Abukuma River System	B-2	The main stream of the Abukuma River	2018/5/17	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	27	7.8	Mature fish	Obscure digesta	Viscera removed	13.2	1.2	12	0.17		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbatus</i>	Hemibarbus barbatus	3	4.7	Mature fish	Obscure digesta	Viscera removed	28.7	2.7	26	0.28		
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	5.2	Mature fish	Gomphidae,Crab	Viscera removed	28.0	3.0	25	0.22		
				Vertebrata	Osteichthyes	Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	1	4.2	Mature fish	Small mammals,Crab	Viscera removed	10.6	1.1	9.5	0.34		
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	1.7	Mature fish	Empty stomach	Viscera removed	40.9	3.9	37	0.27		
	B-3	Surikami River	2018/5/28	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.012	-	-	-	40.1	4.1	36	-		
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae</i>	<u>Siphonuridae</u>	402	0.022	Larva	-	-	-	29.1	2.1	27	-	
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemeria strigata</i>	Mont mayfly	405	0.14	Larva	-	-	-	24.4	2.4	22	-	
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	46	0.032	Larva(Dragonfly larva)	-	-	-	7.7	N.D.(1.4)	7.7	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	44	0.051	Larva	-	-	-	1.6	N.D.(1.2)	1.6	-	
				Arthropoda	Insecta	Odonata	Cordulegasteridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii	14	0.15	Juvenile,Imago	-	-	-	11.2	1.2	10	-	
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus	4	1.3	Immature fish,Mature fish	Amur minnow,Cobitis biwae	Viscera removed	13.2	1.2	12	0.12		
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	43	0.29	Immature fish	-	-	-	4.26	0.56	3.7	-	
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Davidius	194	2.4	Immature fish,Mature fish	-	-	-	4.38	0.48	3.9	0.36	
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	31	0.24	Immature fish	-	-	-	5.12	0.52	4.6	-	
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.051	Mature fish	-	-	-	4.1	N.D.(0.95)	4.1	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	15	0.17	Immature fish,Mature fish	-	-	-	5.27	0.57	4.7	-	
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	1	1.6	Mature fish	Obscure digesta	Viscera removed	8.84	0.94	7.9	0.37		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	49	0.20	Immature fish,Mature fish	-	-	-	9.6	1.0	8.6	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	133	1.2	Immature fish	-	-	-	4.49	0.39	4.1	0.27	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	6	0.072	Immature fish,Mature fish	-	-	-	3.5	N.D.(0.90)	3.5	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	8	0.011	Larva(Tadpole)	-	-	-	82.8	8.8	74	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.55	Imago	-	-	-	7.24	0.74	6.5	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	8	0.030	Imago	-	-	-	20.9	1.9	19	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Nemacheilus toni</i>	Stone loach	8	0.011	Larva(Tadpole)	-	-	-	82.8	8.8	74	-	
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	1	0.55	Imago	-	-	-	7.24	0.74	6.5	-	
				Vertebrata	Amphibia	Anura	-	-	-	-	8	0.030	Imago	-	-	-	20.9	1.9	19	-
				Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American Bullfrog	1	0.55	Imago	-	-	-	7.24	0.74	6.5	-	
Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled Frog	8	0.030	Imago	-	-	-	20.9	1.9	19	-					
Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo Daruma pond frog	8	0.030	Imago	-	-	-	20.9	1.9	19	-					
Coarse Particulate Organic Matter	-	-	-	-	-	-	-	0.21	-	-	-	-	13.1	1.1	12	-				

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Uda River	C-6	The main stream of the Uda River	2018/6/2	Algae/plant	-	-	-	-	Riverbed Deposits (include algae)	-	0.0088	-	-	-	49.0	5.0	44	-	
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.17	-	-	-	-	2.5	N.D.(0.42)	2.5	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida	330	0.014	Larva	-	-	-	40.9	3.9	37	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	35	0.054	Juvenile,Imago	-	-	-	5.8	N.D.(1.2)	5.8	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	150	0.031	Juvenile	-	-	-	5.3	N.D.(1.8)	5.3	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	9	0.19	Juvenile	-	-	-	13.4	1.4	12	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	1.1	Mature fish	Empty stomach	Viscera removed	26.9	1.9	25	0.069	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	3	0.90	Immature fish,Mature fish	Japanese mitten Crab	Viscera removed	26.0	3.0	23	0.072	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	1	0.0097	Immature fish	Obscure digesta	Viscera removed	7.7	N.D.(5.8)	7.7	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	Dark chub	17	0.069	Immature fish,Mature fish	Obscure digesta	Viscera removed	5.6	N.D.(0.96)	5.6	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	14	0.040	Mature fish	-	-	5.0	N.D.(1.3)	5.0	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	34	0.12	Immature fish,Mature fish	-	-	4.50	0.50	4.0	-	
				Vertebrata	Osteichthyes	Salmoniformes	Osmoridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	83	1.1	Immature fish,Mature fish	-	-	23.2	2.2	21	0.10	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	1	0.16	Immature fish	Common prawn,Plant pieces	Viscera removed	22.0	2.0	20	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius urotaenia</i>	Goby	4	0.040	Immature fish	Ephemeroptera,Plec optera,Algae,Plant pieces	Viscera removed	15.3	1.3	14	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	34	0.059	Immature fish,Mature fish	Ephemeroptera	Viscera removed	13.5	1.5	12	-	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<u>Rhinogobius nagoyae</u>										
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	2	0.046	Mature fish	Obscure digesta	Viscera removed	10.5	1.4	9.1	-	
				Vertebrata	Osteichthyes	Siluriformes	Bagridae	<i>Tachysurus tokiensis</i>	Cut-tailed bullhead	3	0.017	Immature fish	Obscure digesta	Viscera removed	6.7	N.D.(2.6)	6.7	-	
				Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo Daruma pond frog	1	0.013	Imago	-	-	N.D.	N.D.(3.0)	N.D.(2.7)	-	
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	87.8	9.8	78	-		

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Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)			
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137				
Mano River	D-3	The main stream of the Mano River	2018/6/1	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	33	0.60	Immature fish, Mature fish	Attached algae	Viscera removed	25.9	1.9	24	-		
	D-4 b	The main stream of the Mano River	2018/6/6	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0076	-	-	-	124	14	110	-		
				Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.28	-	-	-	-	30.0	2.0	28	-	
				Algae/plant	Monocotyledoneae	Poales	Poaceae	<i>Phragmites australis</i>	Common reed	-	0.20	-	-	-	-	-	23.7	2.7	21	-
				Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton bertholdii</i>	Small pondweed	-	0.24	-	-	-	-	-	188	18	170	-
				Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Potamanthus formosus</i>	Potamanthus formosus	504	0.023	Larva	-	-	-	-	31.2	3.2	28	-
				Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	Isonychia valida											
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae</i>	<i>Siphonuridae</i>											
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella ishiyamana</i>	Drunella ishiyamana											
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera sp.</i>	Ephemera											
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata											
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	77	0.025	Larva (Dragonfly larva)	-	-	-	9.0	N.D.(2.0)	9.0	-	
				Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligomphus viridicostus</i>	Melligomphus viridicostus											
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae	89	0.028	Larva	-	-	-	14.8	1.8	13	-	
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani											
				Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Protohermes grandis	89	0.028	Larva	-	-	-	14.8	1.8	13	-	
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	2	0.056	Imago	-	-	-	59.0	5.0	54	-	
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	24	0.040	Imago	-	-	-	13.4	1.4	12	-	
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	170	0.047	Juvenile, Imago	-	-	-	18.2	2.2	16	-	
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.15	Juvenile	-	-	-	22.1	2.1	20	-	
				Mollusca	Bivalvia	Unionoida	Unionidae	<i>Inversunio jokohamensis</i>	Inversunio jokohamensis	4	0.025	Imago	-	-	Molluscous part	65.7	6.7	59	-	
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.031	Imago	-	-	Molluscous part	65.6	5.6	60	-	
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	4	1.1	Immature fish, Mature fish	Japanese dace, Cobitis biwae, Sieboldius albardae, Ephemerellidae	Viscera removed	110	10	100	0.13		
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	25	1.3	Immature fish, Mature fish	Protohermes grandis, Mataeopsephus japonicus, Freshwater shrimp, Stenopsyche marmorata, Rhinogobius	Viscera removed	39.0	5.0	34	0.50		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	17	0.071	Immature fish, Mature fish	-	-	-	12.2	1.2	11	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	5	0.026	Immature fish	-	-	-	22.1	2.1	20	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	17	0.14	Immature fish	Obscure digesta	Viscera removed	18.8	1.8	17	-		
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Gnathopogon elongatus elongatus</i>	Gnathopogon elongatus elongatus	2	0.0076	Immature fish	-	-	-	14	N.D.(6.0)	14	-	
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	Cobitis biwae	79	0.29	Mature fish	Obscure digesta	Viscera removed	19.1	2.1	17	-					
	Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	25	0.23	Immature fish, Mature fish	Obscure digesta	Viscera removed	14.2	1.2	13	-					
	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	11	0.058	Immature fish	Attached algae	Viscera removed	49.7	5.7	44	-					
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	67	0.21	Mature fish	Obscure digesta	Viscera removed	24.3	2.3	22	-						
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>															
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger brevispinis</i>	Dusky tripletooth goby	7	0.14	Mature fish	-	-	-	20.6	2.6	18	-					
Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	Far eastern brook lamprey	6	0.010	Ammocoetes (larva)	-	-	-	11	N.D.(4.4)	11	-					
Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	1	0.0032	Imago	-	-	-	175	15	160	-					
Coarse Particulate Organic Matter	-	-	-	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	48.7	4.7	44	-			

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Niida River	E-2 b	The main stream of the Niida River	2018/6/2	Algae/plant	-	-	-	-	Riverbed Deposits (include algae)	-	0.0094	-	-	-	226	26	200	-	
				Algae/plant	Monocotyledoneae	Poales	Poaceae	<i>Phragmites australis</i>	Common reed	-	0.17	-	-	-	-	22.3	2.3	20	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	89	0.015	Larva	-	-	-	105	10	95	-
				Arthropoda	Malacostraca	Decapoda	Cambaridae	<i>Procambarus clarkii</i>	Red swamp crawfish	9	0.081	Juvenile,Imago	-	-	-	56.4	5.4	51	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	44	0.079	Imago	-	-	-	25.6	2.6	23	-
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	353	0.078	Juvenile,Imago	-	-	-	39.4	3.4	36	-
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	8	0.037	Juvenile	-	-	-	40.5	4.5	36	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	30	0.022	Imago	-	Molluscous part	-	75	13	62	-
				Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	1	0.42	Mature fish	Empty stomach	Viscera removed	-	92.7	8.7	84	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	20	0.23	Immature fish,Mature fish	-	-	-	30.9	2.9	28	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	10	0.11	Immature fish	-	-	-	39.8	3.8	36	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	17	0.44	Mature fish,Mature fish	-	-	-	26.4	1.4	25	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Sarcocheilichthys variegatus variegatus</i>	Sarcocheilichthys variegatus variegatus	5	0.047	Immature fish,Mature fish	-	-	-	21.5	2.5	19	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorfii	1	0.060	Mature fish	Obscure digesta	Viscera removed	-	26.5	2.5	24	-
				Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	3	0.037	Mature fish	-	-	-	31.7	2.7	29	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	1	0.093	Immature fish	Orthoptera,Ecdyonurus yoshidae,Siphonuridae,Apatania,Simulium vittatum	Viscera removed	-	30.4	3.4	27	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<u>Rhinogobius fluviatilis</u>	5	0.038	Mature fish	-	-	-	51.1	6.1	45	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	Rhinogobius nagoyae	1	1.4	Mature fish	Red swamp crawfish	Viscera removed	-	130	10	120	1.0
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	4	2.3	Mature fish	Freshwater shrimp,Plant pieces	Viscera removed	-	83.3	7.3	76	0.71
				Vertebrata	Amphibia	Anura	-	-	Frog	22	0.013	Larva(Tadpole)	-	-	-	287	27	260	-
Vertebrata	Amphibia	Anura	Lithobates	<i>Lithobates catesbeianus</i>	American Bullfrog	2	0.90	Imago	-	-	-	32.8	4.8	28	0.69				
Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled Frog	5	0.028	Imago	-	-	-	33.0	3.0	30	-				
Vertebrata	Amphibia	Anura	Pelophylax	<i>Pelophylax porosus porosus</i>	Tokyo Daruma pond frog														
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	86.9	7.9	79	-		
E-3	The main stream of the Niida River	2018/7/1	Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	143	3.1	Immature fish,Mature fish	-	-	-	47.9	4.9	43	0.25	

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137		
Ota River	F-1	The main stream of the Ota River	2018/6/5	Algae/plant	-	-	-	Riverbed Deposits (include algae)	-	0.0062	-	-	-	403	43	360	-	
			Algae/plant	Zygnematophyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.35	-	-	-	-	56.8	5.8	51	-
			Algae/plant	Monocotyledoneae	Poales	Poaceae	<i>Phragmites australis</i>	Common reed	-	0.10	-	-	-	-	231	21	210	-
			Algae/plant	Monocotyledoneae	Najadales	Potamogetonaceae	<i>Potamogeton berchtoldii</i>	Small pondweed	-	0.17	-	-	-	-	46.5	3.5	43	-
			Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia valida</i>	Isonychia valida	113	0.013	Larva	-	-	-	144	14	130	-
			Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	Stenopsyche marmorata	44	0.014	Larva	-	-	-	134	14	120	-
			Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	70	0.033	Larva(Dragonfly larva)	-	-	-	147	17	130	-
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Nihonogomphus viridis</i>	<u>Nihonogomphus viridis</u>										
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii										
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
			Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melaenops</i>	Asiagomphus melaenops										
			Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum japonicum</i>	Japanese skimmer										
			Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<u>Protohermes grandis</u>										
			Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Parachauliodes japonicus</i>	Parachauliodes japonicus	44	0.0073	Larva	-	-	-	79.6	7.6	72	-
			Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	20	0.029	Imago	-	-	-	224	24	200	-
			Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp	134	0.038	Juvenile,Imago	-	-	-	106.2	7.2	99	-
			Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	5	0.085	Juvenile	-	-	-	306	26	280	-
			Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	2	0.47	Immature fish,Mature fish	Obscure digesta	Viscera removed	641	61	580	-	
			Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	10	0.029	Immature fish	-	-	-	371	41	330	-
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	7	0.037	Immature fish	-	-	-	240	20	220	-		
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius cuvieri</i>	Japanese crucian carp	2	1.9	Mature fish	Obscure digesta	Viscera removed	433	43	390	2.1			
	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	Rhinogobius fluviatilis	19	0.067	Mature fish	Diptera(imago),Isonychia japonica,Ephemera cryptomeria	Viscera removed	414	44	370	-			
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.11	-	-	-	-	709	69	640	-		
F-5	The main stream of the Ota River	2018/6/5	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	Japanese eel	3	0.87	Immature fish,Mature fish	Obscure digesta	Viscera removed	254	24	230	-	
			Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Plecoglossus altivelis altivelis</i>	Sweetfish	204	0.35	Immature fish	-	-	90.8	8.8	82	0.31	

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Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Hayama	G-1	In the lake	2018/6/1	Algae/plant	-	-	-	Plankton (Planktonic algae)	-	0.015	-	-	-	2.3	N.D.(2.6)	2.3	-		
	G-2		2018/6/4	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	2.6	Mature fish	Fish	Viscera removed	142	12	130	0.91	
	G-3		2018/6/4	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	41	0.20	Immature fish	Obscure digesta	Viscera removed	38.4	3.4	35	-	
	G-4	Inflowing rivers	2018/6/1	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0053	-	-	-	119.7	9.7	110	-	
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae</i>	Siphonuridae	1214	0.020	Larva	-	-	-	39.0	4.0	35	-
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Macromia amphigena	47	0.014	Larva(Dragonfly larva)	-	-	-	18	N.D.(3.1)	18	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Stylogomphus suzukii										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	Sieboldius albardae										
				Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>										
				Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria maclachlani</i>	Boyeria maclachlani										
				Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	Freshwater shrimp										
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Phoxinus lagowskii steindachneri</i>	Amur Minnow	15	0.026	Immature fish	-	-	-	33.6	2.6	31	-
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	138	1.3	Immature fish,Mature fish	-	-	-	69.5	6.5	63	0.29
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	75	0.060	Immature fish,Mature fish	-	-	-	77.6	8.6	69	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	10	0.18	Immature fish	Scarabaeidae,Leaf beetle,Tiger beetle,Lepidoptera(larva),Lepidostoma,Goera japonica,Stink bug,Apatania,Ostrovus,Eneorus	Viscera removed	30.1	3.1	27	-	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	0.37	Mature fish	Sieboldius albardae,Japanese dace,Rhinogobius flumineus	Viscera removed	217	17	200	1.1	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius flumineus</i>	Rhinogobius flumineus	51	0.059	Immature fish,Mature fish	Midge,Simulium vittatum	Viscera removed	29.4	3.4	26	-	
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	3	2.1	Immature fish,Mature fish	Fish	Viscera removed	331	31	300	0.39	
				Vertebrata	Amphibia	Anura	-	-	-	Frog	8	0.0022	Larva(Tadpole)	-	-	-	386	56	330
Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	2	0.024	Imago	-	-	-	29.9	2.9	27	-				
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	1	0.0041	Imago	-	-	-	20	N.D.(15)	20	-				
			Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	-	144	14	130	-		

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Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)	
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137		
Lake Akimono	H-1 H-2 H-3	In the lake	2018/5/30	Arthropoda	Malacostraca	Decapoda	Astacidae	<i>Pacifastacus leniusculus trowbridgii</i>	Signal crayfish	10	0.88	Imago	-	-	15.9	1.9	14	7.5
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	3.7	Mature fish	Obscure digesta	Viscera removed	43.0	4.0	39	0.74
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<i>Carassius auratus langsdorffii</i>	13	2.1	Mature fish	Obscure digesta	Viscera removed	42.6	2.6	40	1.1
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	Common carp	1	0.33	Mature fish	Obscure digesta	Viscera removed	31.1	3.1	28	1.1
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	<i>Hemibarbus barbus</i>	3	2.2	Mature fish	Obscure digesta	Viscera removed	20.5	1.5	19	1.0
				Vertebrata	Osteichthyes	Salmoniformes	Osmeridae	<i>Hypomesus nipponensis</i>	Japanese smelt	47	0.27	Mature fish	-	-	19.7	1.7	18	-
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	6	1.8	Mature fish	Terrestrial insect,Japanese smelt	Viscera removed	52.1	5.1	47	0.27
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou masou</i>	Seema	3	0.62	Immature fish	Terrestrial insect,Japanese smelt, Mont mayfly	Viscera removed	42.5	4.5	38	-
	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	0.65	Immature fish	Japanese smelt,Signal crayfish, Mont mayfly	Viscera removed	42.7	3.7	39	-			
	H-3	Inflowing rivers	2018/5/30	Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Heptageniidae</i>	Heptageniidae	147	0.013	Larva	-	-	6.1	N.D.(3.0)	6.1	-
				Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonuridae</i>	Siphonuridae									
				Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Drunella basalis</i>	<i>Drunella basalis</i>									
				Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera japonica</i>	<i>Ephemera japonica</i>									
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria sp.</i>	<i>Acroneuria</i>	86	0.016	Larva	-	-	N.D.	N.D.(2.6)	N.D.(2.5)	-
				Arthropoda	Insecta	Plecoptera	Perlidae	<i>Calineuria sp.</i>	<i>Calineuria</i>	96	0.026	Larva	-	-	2.9	N.D.(1.6)	2.9	-
				Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>									
				Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	<i>Cottus pollux</i>	Japanese fluvial sculpin	16	0.078	Immature fish	Ameletus montanus,Trichoptera,Drunella basalis,Acroneuria, Midge,Ephemeroptera,Simuliidae	Viscera removed	4.1	N.D.(3.9)	4.1	-
	Vertebrata	Amphibia	Anura	Rhacophoridae	<i>Buergeria buergeri</i>	Kajika frog	19	0.14	Imago	-	-	69.2	6.2	63	-			
	Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.17	-	-	-	18.5	1.5	17	-			
	H-4	Within the lake and rivers in the vicinity	2018/5/30	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.015	-	-	-	N.D.	N.D.(2.0)	N.D.(2.2)	-
			2018/5/29	Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera japonica</i>	<i>Ephemera japonica</i>	395	0.031	Larva	-	-	14.9	1.9	13	-
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>	55	0.052	Larva(Dragonfly larva)	-	-	26.7	2.7	24	-
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	55	0.017	Juvenile,Imago	-	-	13	N.D.(2.2)	13	-
				Mollusca	Gastropoda	Discopoda	Pleuroceridae	<i>Semisulcospira libertina</i>	<i>Semisulcospira libertina</i>	30	0.028	Imago	-	Molluscous part	11.3	1.3	10	-
				Vertebrata	Amphibia	Anura	-	-	Frog	280	0.11	Larva(Tadpole)	-	-	25.3	2.3	23	-
				Vertebrata	Amphibia	Anura	Ranidae	<i>Rana ornativentris</i>	Montane brown frog	7	0.023	Imago	-	-	16.2	2.2	14	-

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Lake Inawashiro	I-1 I-2 (north lakeside)	2018/5/30	Within the lake and Nagase River	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	12	2.3	Mature fish	Obscure digesta	Viscera removed	28.9	2.9	26	0.23	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	58	2.5	Immature fish, Mature fish	-	-	16.0	1.0	15	0.21	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorffii</u>	8	2.4	Mature fish	Obscure digesta	Viscera removed	34.8	2.8	32	0.39	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	2	2.7	Mature fish	Empty stomach	Viscera removed	38.3	3.3	35	0.35	
				Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	4	1.3	Mature fish	Empty stomach	Viscera removed	39.4	3.4	36	0.11	
				Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	4	2.6	Immature fish, Mature fish	Common prawn	Viscera removed	27.8	2.8	25	0.23	
				Vertebrata	Osteichthyes	Perciformes	Actinopterygii	<i>Channa argus</i>	Snakehead	2	1.6	Immature fish	Empty stomach	Viscera removed	19.4	1.4	18	0.30	
				Vertebrata	Osteichthyes	Siluriformes	Siluridae	<i>Silurus asotus</i>	Amur catfish	1	0.62	Mature fish	Empty stomach	Viscera removed	22.8	1.8	21	-	
			2018/5/29		Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.19	-	-	-	8.52	0.82	7.7	-
	J-1 (south lakeside)	Within the lake and around the Oninuma	2018/5/29	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.014	-	-	-	N.D.	N.D.(2.3)	N.D.(2.3)	-	
				Algae/plant	Zygnematomyceae	Zygnematales	Zygnemataceae	<i>Spirogyra sp.</i>	Spirogyra	-	0.31	-	-	-	8.20	0.70	7.5	-	
				Algae/plant	Dicotyledoneae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	-	0.33	-	-	-	0.87	N.D.(0.26)	0.87	-	
				Algae/plant	Dicotyledoneae	Solanales	Menyanthaceae	<i>Nymphoides peltata</i>	Fringed water-lily	-	0.35	-	-	-	0.29	N.D.(0.27)	0.29	-	
				Arthropoda	Insecta	Odonata	Corduliidae	<i>Epophthalmia elegans</i>	<u>Epophthalmia elegans</u>	74	0.028	Larva(Dragonfly larva)	-	-	5.0	N.D.(1.7)	5.0	-	
				Arthropoda	Insecta	Odonata	Cordulegastriidae	<i>Anotogaster sieboldii</i>	Anotogaster sieboldii				-	-	-	-	-	-	-
				Arthropoda	Insecta	Odonata	Libellulidae	<i>Delia phaon</i>	Frosted skimmer	-	-	-	-	-	-	-	-	-	
				Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	795	0.49	Imago	-	-	9.56	0.96	8.6	0.66	
				Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Cipangopaludina japonica</i>	Japanese mysterysnail	8	0.055	Imago	-	Molluscos part	7.9	N.D.(1.3)	7.9	-	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	11	1.3	Mature fish	Obscure digesta	Viscera removed	11.0	1.0	10	0.26	
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	<u>Carassius auratus langsdorffii</u>	3	1.4	Mature fish	Obscure digesta	Viscera removed	25.1	2.1	23	0.39	
Vertebrata				Osteichthyes	Cypriniformes	Cyprinidae	<i>Hemibarbus barbus</i>	Hemibarbus barbus	1	1.2	Mature fish	Obscure digesta	Viscera removed	18.7	1.7	17	0.39		
Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Salvelinus leucomaenis</i>	Char	1	0.12	Mature fish	Japanese smelt	Viscera removed	16.5	1.5	15	-					
Vertebrata	Amphibia	Anura	Glandirana	<i>Glandirana rugosa</i>	Wrinkled Frog	8	0.071	Imago	-	-	N.D.	N.D.(1.3)	N.D.(1.1)	-					
Vertebrata	Amphibia	Caudata	Salamandridae	<i>Cynops pyrrhogaster</i>	Cynops pyrrhogaster	22	0.11	Imago	-	-	1.3	N.D.(0.71)	1.3	-					

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											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137		
Off the mouth of the Abukuma River	Surrounding water area off the mouth of the Abukuma River	Sea area in front of the Abukuma River Estuary	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	3	0.57	Imago	-	-	N.D.	N.D.(0.30)	N.D.(0.31)	-	
			Mollusca	Cephalopoda	Octopoda	Octopodidae	<i>Octopus vulgaris</i>	Common octopus	1	0.27	Imago	-	-	N.D.	N.D.(0.26)	N.D.(0.27)	-	
			Vertebrata	Osteichthyes	Lophiiformes	Lophiidae	<i>Lophiomus setigerus</i>	Monkfish	2	1.3	Immature fish	Fish	Viscera removed	N.D.	N.D.(0.30)	N.D.(0.35)	-	
			Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	3	0.36	Mature fish	Shrimp	Viscera removed	0.39	N.D.(0.37)	0.39	-	
			Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Chelidonichthys spinosus</i>	Gurnard	8	2.3	Mature fish	Crab	Viscera removed	N.D.	N.D.(0.25)	N.D.(0.29)	N.D.(0.016)	
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Kareius bicoloratus</i>	Stone flounder	1	0.66	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.38)	N.D.(0.33)	-	
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes herzensteini</i>	Yellow striped flounder	2	0.63	Mature fish	Obscure digesta	Viscera removed	0.40	N.D.(0.37)	0.40	-	
			Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Eopsetta grigorjewi</i>	Shotted halibut	6	0.63	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.35)	N.D.(0.28)	-	
			Vertebrata	Osteichthyes	Perciformes	Polyprionidae	<i>Stereolepis doederleini</i>	Striped jewfish	3	0.45	Immature fish	Fish	Viscera removed	N.D.	N.D.(0.39)	N.D.(0.39)	-	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	6	0.074	Immature fish, Mature fish	-	-	1.7	N.D.(0.75)	1.7	-	
Vertebrata	Osteichthyes	Tetraodontiformes	Monacanthidae	<i>Thamnaconus modestus</i>	Filefish	1	0.080	Immature fish	Obscure digesta	Viscera removed	N.D.	N.D.(0.76)	N.D.(0.84)	-				
Off Sema City	L-1 L-2 L-3	Matsukawaaura Lagoon	2018/6/4	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.012	-	-	-	22.9	2.9	20	-
			Algae/plant	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	0.23	-	-	-	-	N.D.	N.D.(0.33)	N.D.(0.30)	-
			Algae/plant	Chlorophyceae	Ulvales	Ulvaaceae	<i>Ulva pertusa</i>	<i>Ulva pertusa</i>	-	0.29	-	-	-	-	3.0	N.D.(0.26)	3.0	-
			2018/6/2	Annelida	Polychaeta	Eunicida	Eunicidae	<i>Polychaeta</i>	Polychaeta	281	0.076	Imago	-	-	5.91	0.41	5.5	-
			Annelida	Polychaeta	Phyllodocida	Nereididae	<i>Hediste sp.</i>	<i>Hediste sp.</i>										
			Arthropoda	Malacostraca	Decapoda	Alpheidae	<i>Alpheidae</i>	Alpheidae	27	0.042	Juvenile, Imago	-	-	1.6	N.D.(1.0)	1.6	-	
			Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon sp.</i>	Palaemon	61	0.033	Juvenile, Imago	-	-	2.1	N.D.(1.5)	2.1	-	
			Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	134	0.39	Juvenile, Imago	-	-	3.94	0.64	3.3	-	
			Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	Japanese mitten crab	1	0.12	Imago	-	-	4.1	N.D.(0.66)	4.1	-	
			2018/6/4	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	6	0.15	Imago	-	Molluscos part	0.99	N.D.(0.43)	0.99	-
			Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	30	0.16	Imago	-	Molluscos part	1.2	N.D.(0.40)	1.2	-	
			2018/6/3	Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otakii</i>	Fat greenling	3	0.087	Immature fish	Ragworm	Viscera removed	N.D.	N.D.(0.92)	N.D.(0.80)	-
			Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos agrammus</i>	Hexagrammos agrammus	3	0.052	Immature fish	Gammarus, Skeleton shrimp	Viscera removed	N.D.	N.D.(0.96)	N.D.(0.88)	-	
			Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	5	0.14	Immature fish	Mysidae, Fish	Viscera removed	0.69	N.D.(0.67)	0.69	-	
			2018/6/2	Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Pholis crassispina	30	0.057	Immature fish, Mature fish	-	-	N.D.	N.D.(1.1)	N.D.(0.95)	-
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Tridentiger trigonocephalus</i>	Chameleon goby	56	0.10	Immature fish	-	-	2.7	N.D.(0.63)	2.7	-	
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Acentrogobius virgatus</i>	Acentrogobius virgatus										
			Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Favonigobius gymnauchen</i>	<i>Favonigobius gymnauchen</i>										
Vertebrata	Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet													
2018/6/3	Vertebrata	Osteichthyes	Perciformes	Sebastidae	<i>Sebastes schlegelii</i>	Black rockfish	2	0.086	Immature fish	Crab	Viscera removed	0.92	N.D.(0.88)	0.92	-			
2018/6/2	Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	Takifugu niphobles	1	0.093	Mature fish	Crab	Viscera removed	0.97	N.D.(0.84)	0.97	-			

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Location	Sampling point	Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)		
											Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137			
Off Itadaki City	M-1 M-2 M-3	Offshore of Hisanohama	2018/6/5	Mollusca	Cephalopoda	Decapodiformes	Loliginidae	<i>Loliotus japonica</i>	Japanese squid	7	0.18	Imago	-	-	N.D.	N.D.(0.43)	N.D.(0.42)	-	
				Echinodermata	Asteroidea	Forcipulatida	Asteriidae	<i>Asterias amurensis</i>	Northern Pacific seastar	3	0.75	Imago	-	-	N.D.	N.D.(0.28)	N.D.(0.29)	-	
				Vertebrata	Osteichthyes	Lophiiformes	Lophiidae	<i>Lophiomus setigerus</i>	Monkfish	4	3.6	Immature fish	Searobin	Viscera removed	N.D.	N.D.(0.30)	N.D.(0.38)	-	
				Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	<i>Lepidotrigla microptera</i>	Searobin	13	2.3	Immature fish,Mature fish	Shrimp	Viscera removed	0.62	N.D.(0.32)	0.62	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Kareius bicoloratus</i>	Stone flounder	4	3.6	Immature fish,Mature fish	Crab	Viscera removed	0.34	N.D.(0.30)	0.34	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes herzensteini</i>	Yellow striped flounder	7	2.2	Immature fish,Mature fish	Ragworm	Viscera removed	1.8	N.D.(0.43)	1.8	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectes yokohamae</i>	Marbled sole	4	2.0	Mature fish	Ragworm	Viscera removed	1.7	N.D.(0.36)	1.7	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Eopsetta grigorjewi</i>	Shotted halibut	2	0.61	Immature fish	Bivalvia	Viscera removed	1.2	N.D.(0.47)	1.2	-	
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	2	4.3	Mature fish	Fish	Viscera removed	0.77	N.D.(0.34)	0.77	0.014	
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Evyynnis japonica</i>	Crimson sea-bream	3	0.39	Immature fish	Mysid shrimp	Viscera removed	N.D.	N.D.(0.33)	N.D.(0.33)	-	
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu snyderi</i>	Obscure Puffer	5	0.97	Immature fish	Bivalvia,Ragworm,Crab	Viscera removed	0.63	N.D.(0.35)	0.63	-	
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zenopsis nebulosa</i>	Dory	12	0.39	Immature fish	Empty stomach	Viscera removed	0.41	N.D.(0.33)	0.41	-	
				Vertebrata	Osteichthyes	Zeiformes	Zeidae	<i>Zeus faber</i>	John Dory	2	1.6	Mature fish	Fish	Viscera removed	0.47	N.D.(0.36)	0.47	-	
	Vertebrata	Chondrichthyes	Rajiformes	Rajidae	<i>Okamejei kenojei</i>	Common Skete	3	2.5	Immature fish	Shrimp,Crab	Viscera removed	2.03	0.33	1.7	-				
	M-4	Hisanohama Coastal areas	2018/6/5	Algae/plant	Phaeophyceae	Laminariales	Laminariaceae	<i>Eisenia bicyclis</i>	<u>Eisenia bicyclis</u>	-	0.28	-	-	-	0.34	N.D.(0.35)	0.34	-	
				Mollusca	Gastropoda	Archaeogastropoda	Haliotidae	<i>Haliotis sp.</i>	Abalone	3	0.27	Imago	-	-	Molluscos part	N.D.	N.D.(0.33)	N.D.(0.29)	-
				Echinodermata	Echinoidea	Echinoida	Strongylocentrotidae	<i>Strongylocentrotus nudus</i>	Northern sea urchin	8	0.82	Imago	-	-	-	0.54	N.D.(0.31)	0.54	-
Vertebrata				Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos agrammus</i>	Hexagrammos agrammus	1	0.10	Immature fish	Bivalvia	Viscera removed	1.1	N.D.(0.76)	1.1	-		
			Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Rockfish	13	0.34	Immature fish	Amphipod	Viscera removed	0.94	N.D.(0.32)	0.94	-		

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